

SpollJ MLLKRIGLSSMVGVFMLLAGCSSSVKEPITADSPHFWDKVVVPLSELITYVAKLTGDN----- 63
 YqjG ML-KTYQKLLAM---GIFLIVLCSGNAAFAATNQVGGLSNVGFFHDYLIEPPSALLKGVAGLFHGE 65

SpollJ
 YqjG
 YidC
 Oxaip

I YGLSIIILVTLILRLLPMLQKQLRSS---KAMQALQPEMQLKEKYSS-KDQKTTQQKLQQQETMA 121
 YGLSIIILVTLILVVLPLFVNQFKKQORIFQEKMAVIKPQVDSIQQVQLKKTKDPEKQKELQMEMMK 128
 WGFSSIIITTFIVRGIMYPLTKAQYTSM---AKMRLQPKIQAMRERL--GDD---KQRISQEMMA 410
 WWGTTAAATTILRCLMFPLLYVKSSDTV---ARNSSHIKPELDALNNKLMSTDLQQGQLVAMQRKK 189

I

II LFQKHGVNP--EAG-CFPILLQMPILIGFYHAIMRTQAISEH--SFLWFDLGEKDPPYIILP-IV 182
 LYQEHNINP--LAMGCLPMLIQSPIMIGLYAIRSTPEIASH--SFLWFSLGQSDIIMSLSAGIMY 190
 LYKAEKVNP--LGG-CFPPLLIQMPIMPLALYVYMLMGSVELRQAPPALWIHDLSAQDPYIILP-ILM 473
 LLSSSHGIKNWRWLAAPMLQIPIALGFFENALRHMANYPVDGFANQGVAWFTDLTQADPYLGLQVITAA 255

II

III

IV GVATFVQQKLMMAGNAQQNP----QMAMMLWIMPIMIIVFAINFPAAALSLYWWVGMLFMIATQFL 241
 FVQAYIAQKLSAKYSAVPQNPAQQOSAKLIMVIFPPVMMTIFSLNVPAALPLIYWFTSGFLFLTVQNIV 256
 GVTMFFIGKMSPT--TVTDP----MQQKIMTFNPVIFTVFFLWEP SGLVLYYIVSNLVTTIQQQL 532
 VFISSETRLGGETGAQQFSSP----MKRRLFTILPIISIPATMNLSSAVVLYFAFNGAFSVLQTM 315

IV

V

SpollJ IKGPDIKKNPEPQKAGGKKK
 YqjG LQMTHHKSKKTAALTESV-K
 YidC
 Oxaip

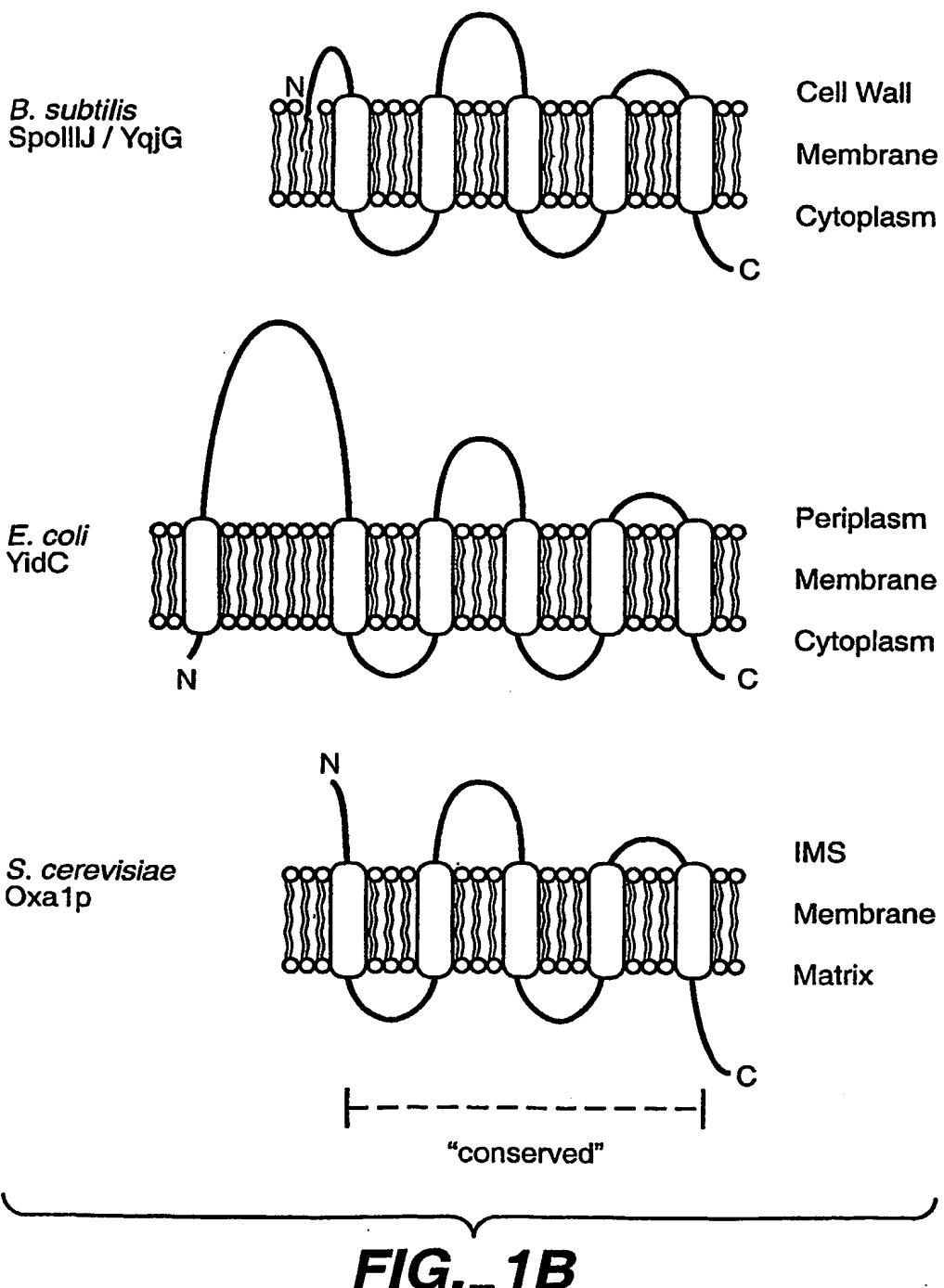
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275

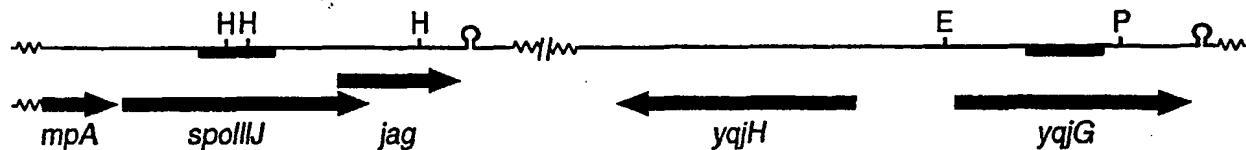
FIG.-1A

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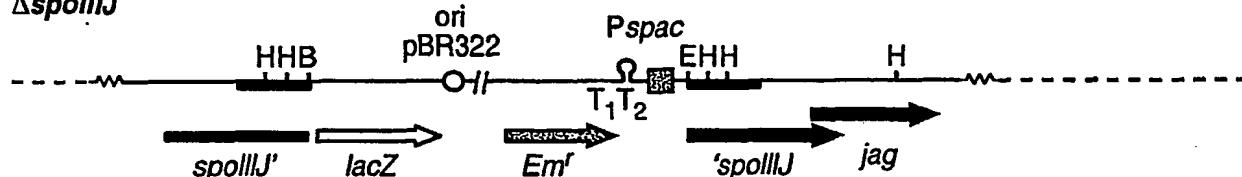
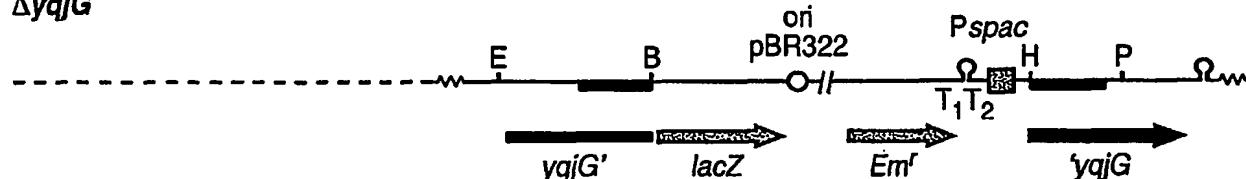
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B. subtilis 168

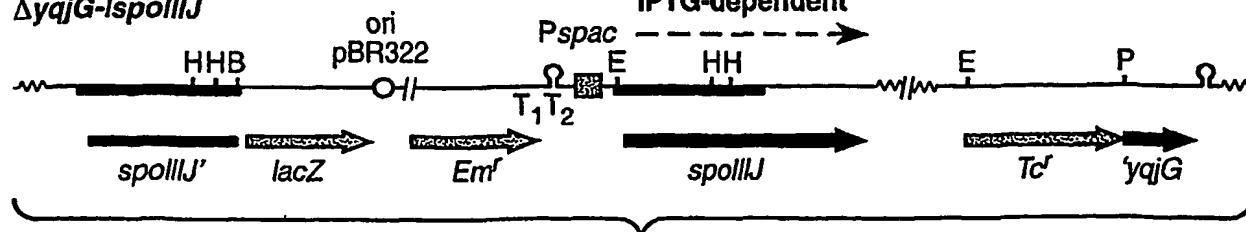
↓ Sco integration
of pMutin- Δ spolliJ

B. subtilis
 Δ spolliJ*B. subtilis*
 Δ yqjG

↓ Sco integration
of pMutin- Δ yqjG

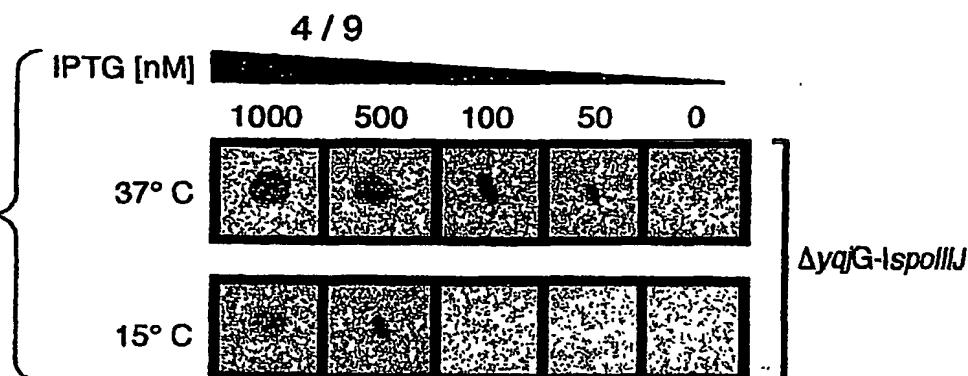
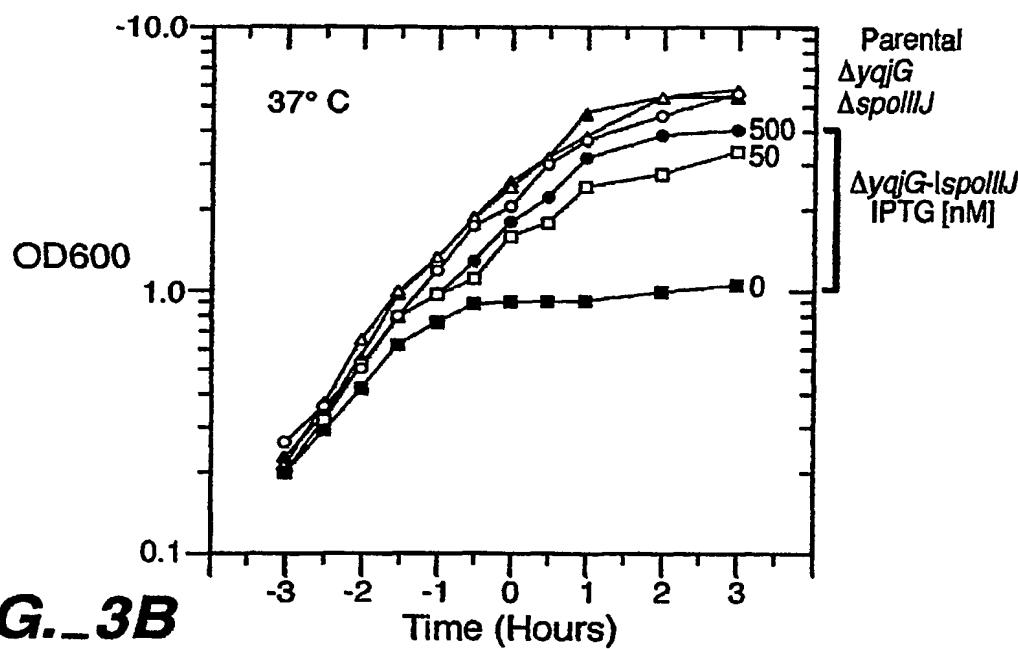
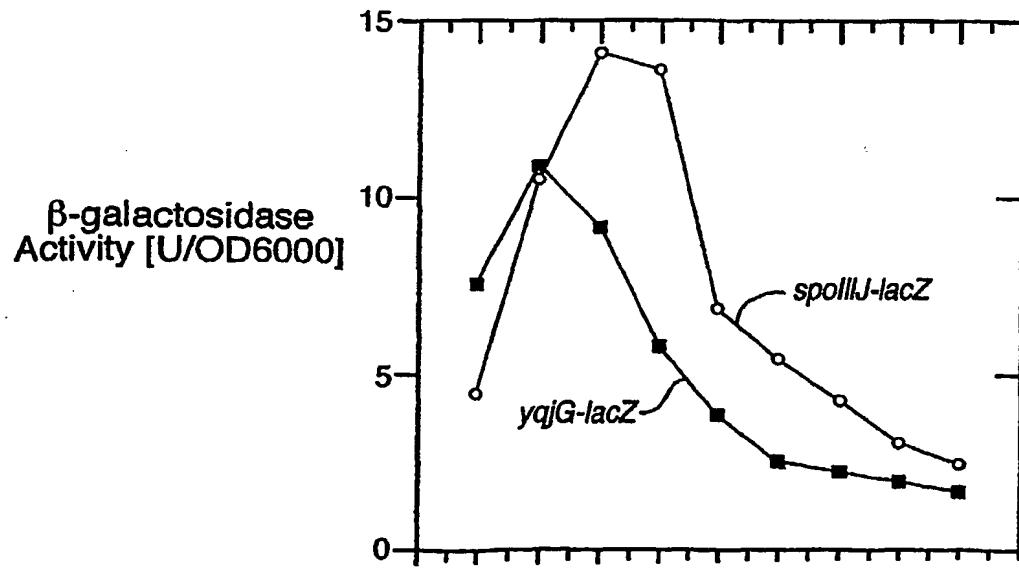
B. subtilis
 Δ yqjG-Tc

↓ Dco replacement of EcoRI-PstI
fragment by a Tc' marker

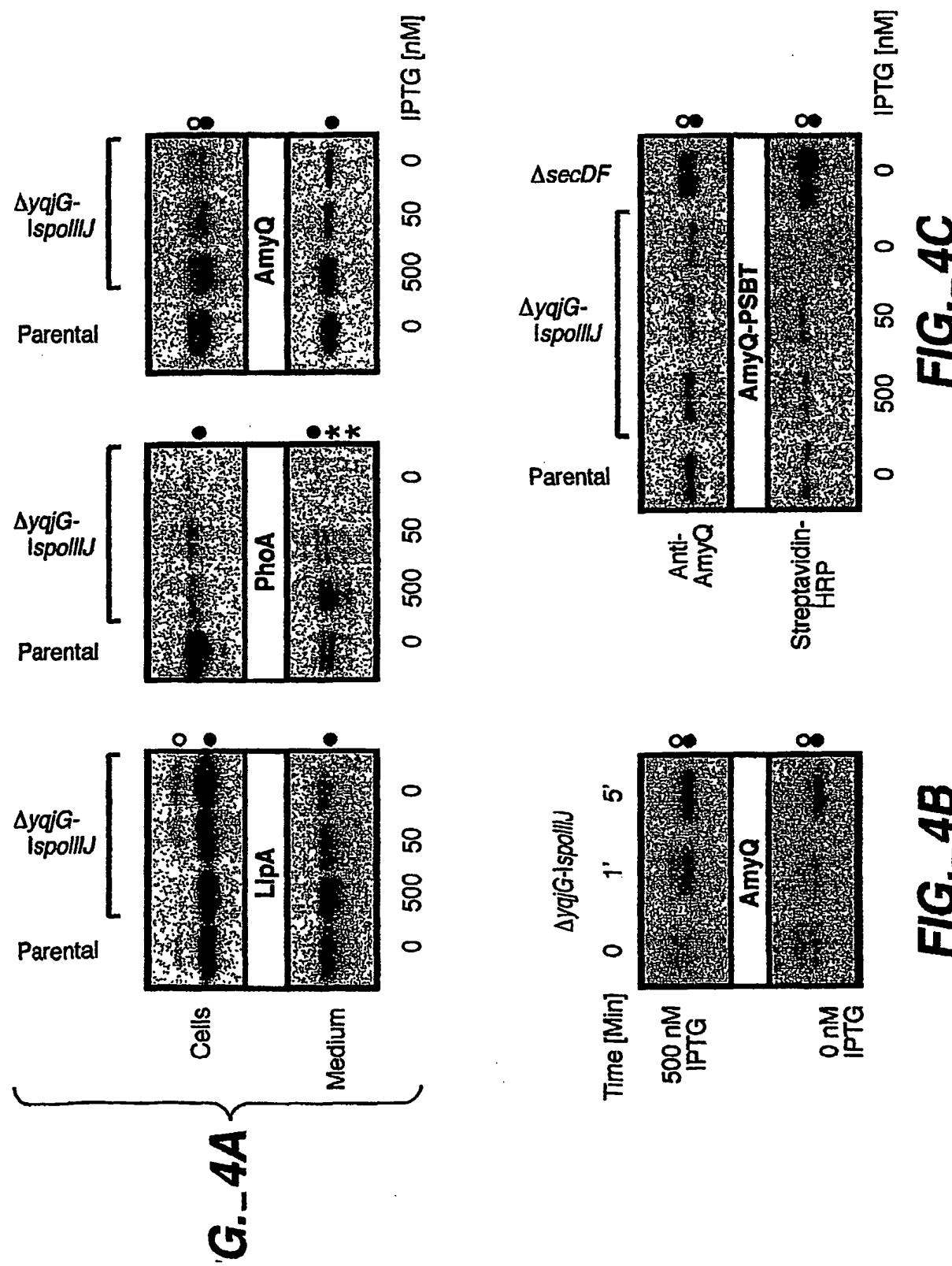
B. subtilis
 Δ yqjG-*spolliJ*

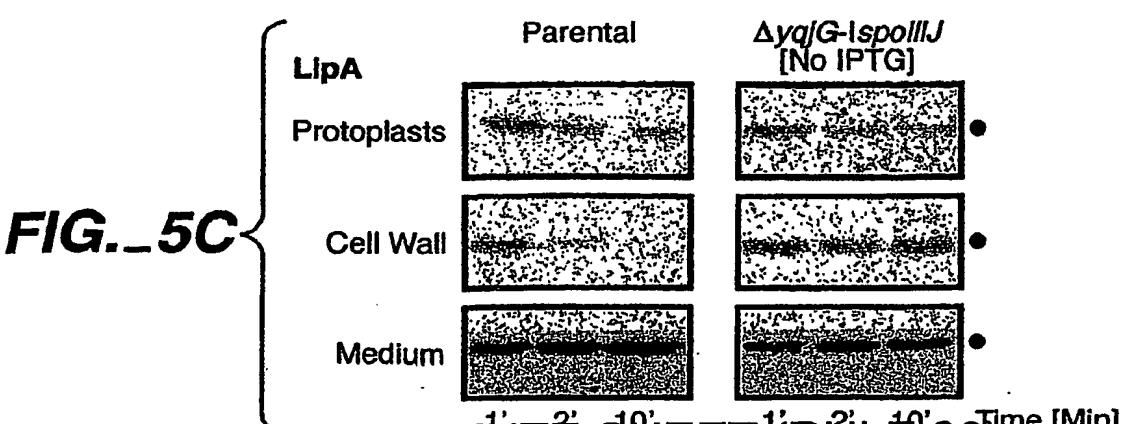
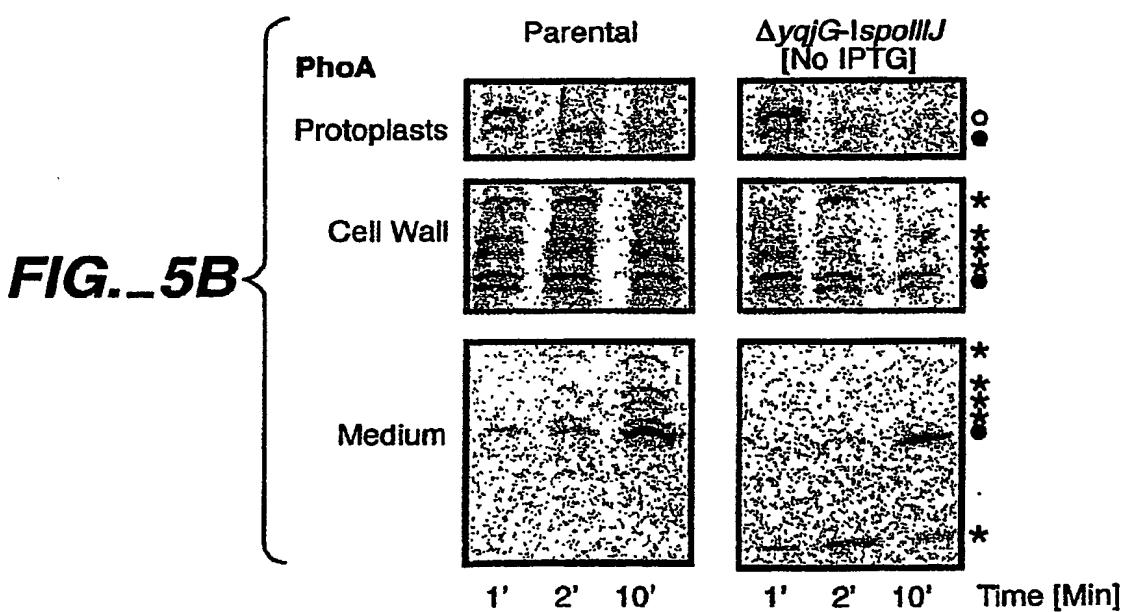
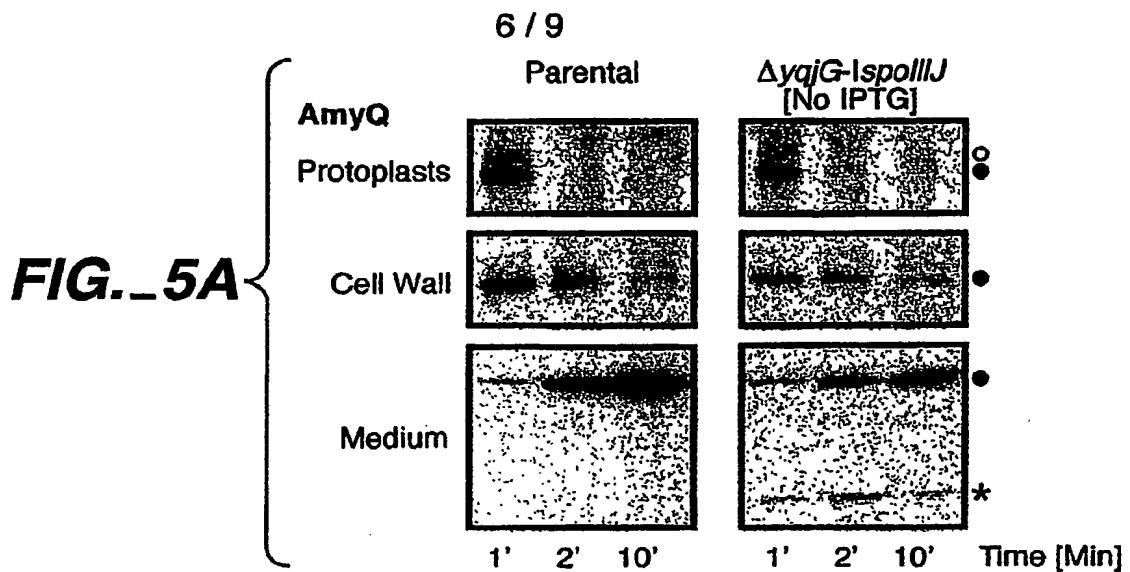
↓ Sco integration
of pMutin-*spolliJ*

↓ Dco replacement of EcoRI-PstI
fragment by a Tc' marker

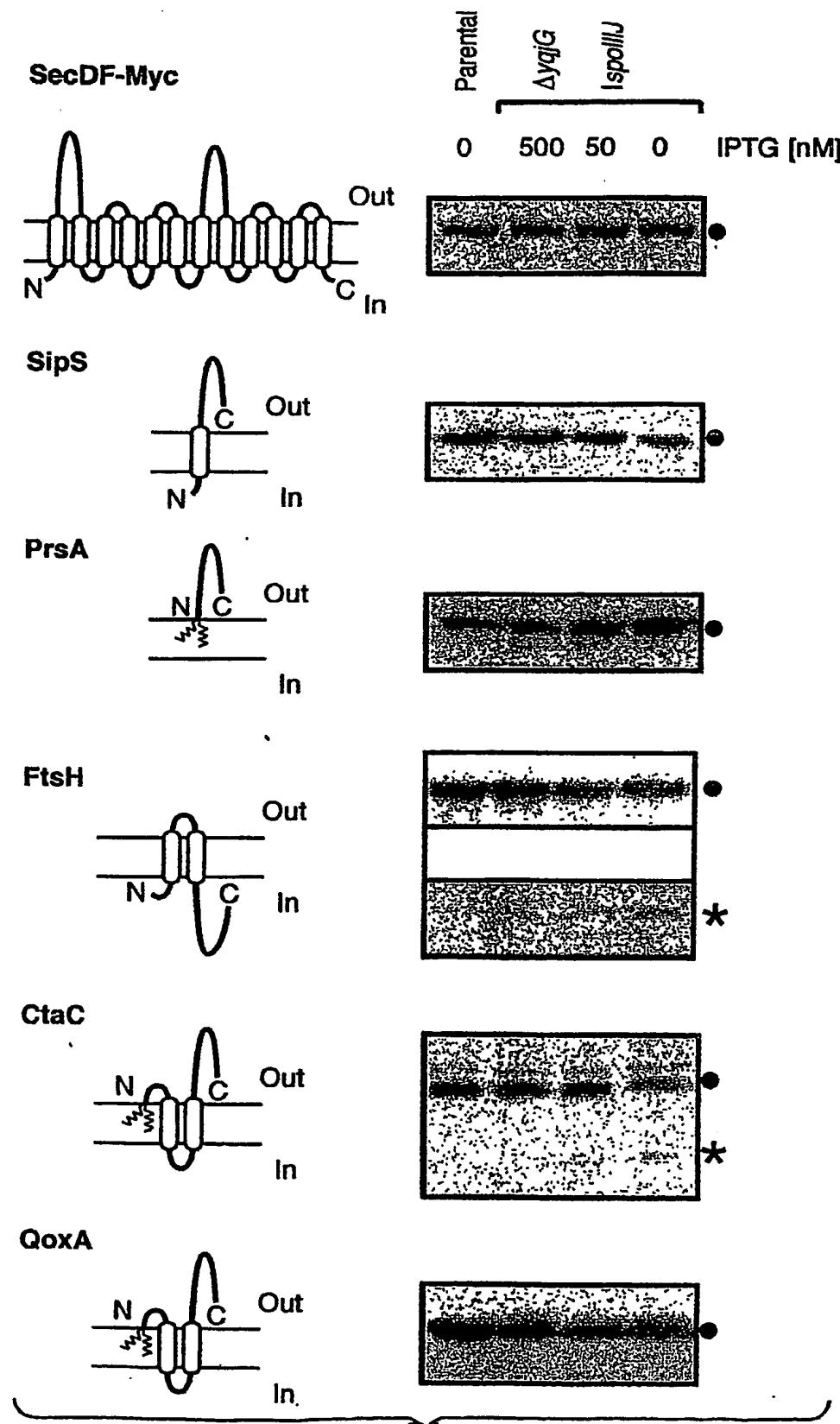
FIG._3A**FIG._3B****FIG._3C**

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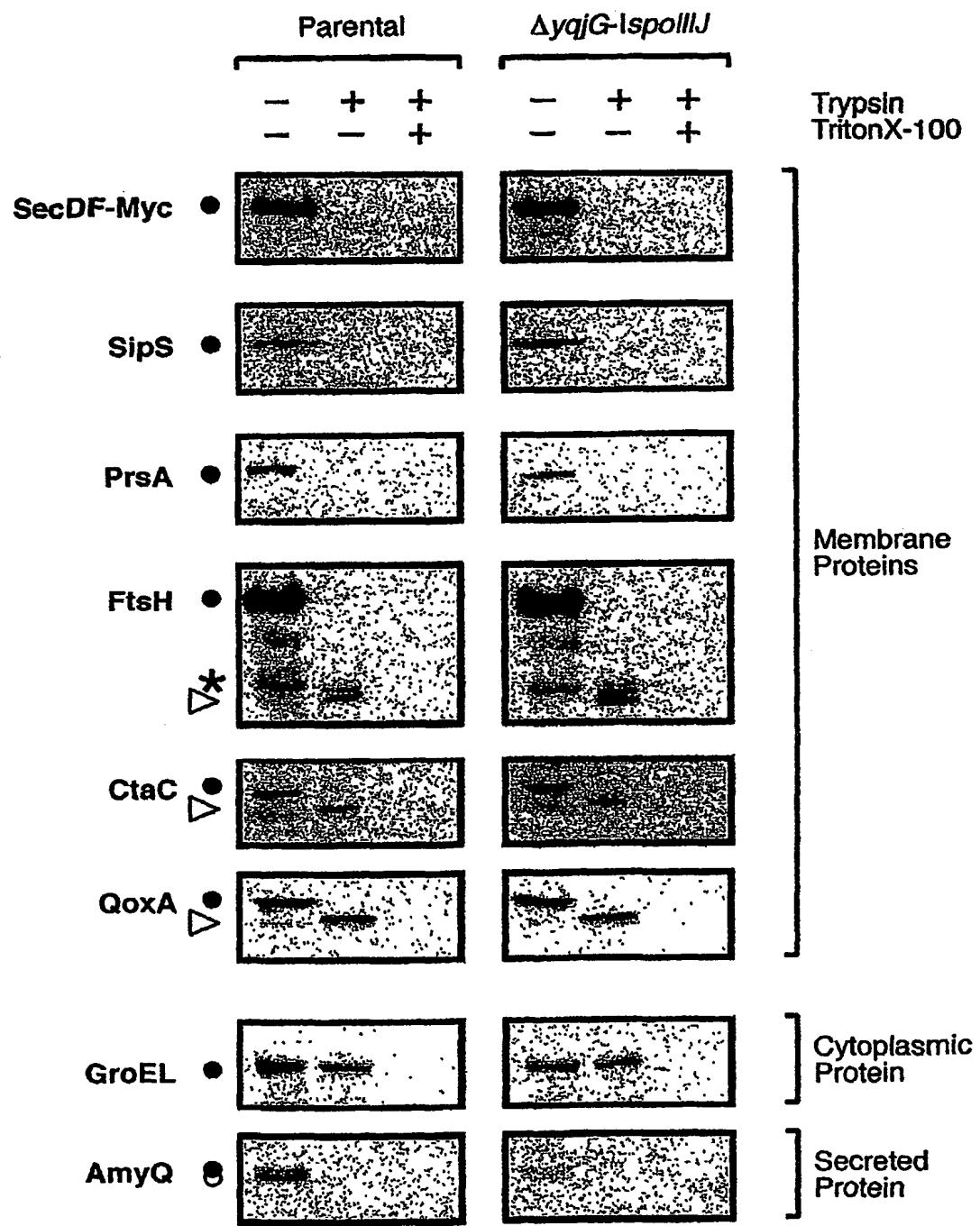
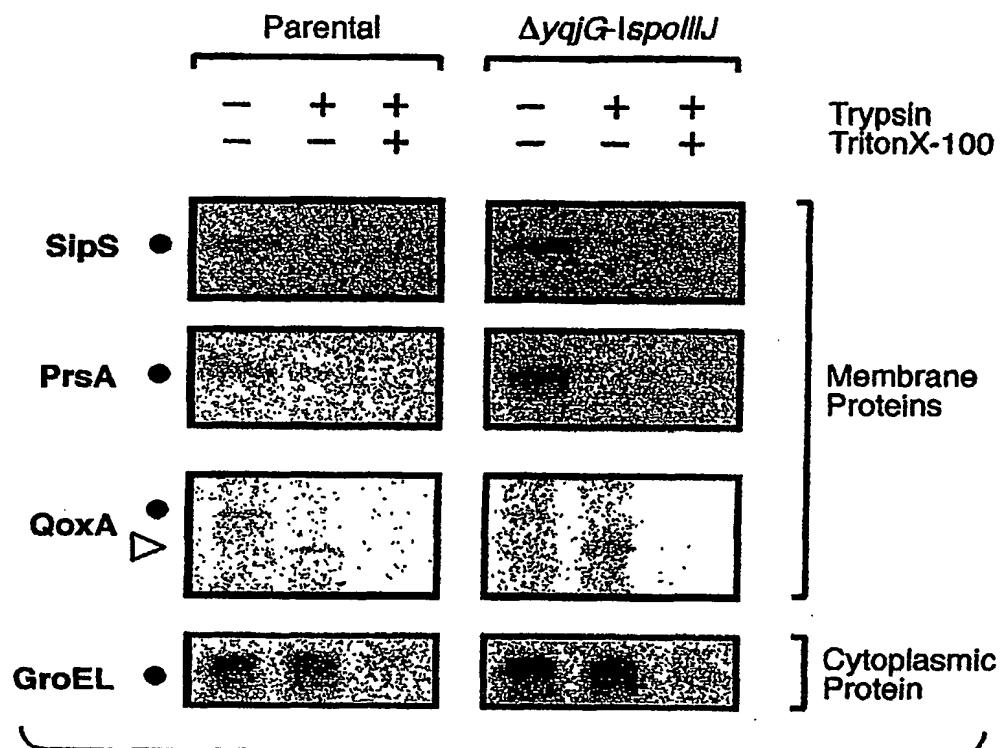


FIG.-7

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